

THREATENED AND ENDANGERED SPECIES IN KENTUCKY
(49 Species as of January 11, 2017)*

*Note: For a list of endangered, threatened, proposed, and candidate species that could potentially occur at a specific site in Kentucky, please visit the Service's Information for Planning and Conservation (IPaC) system located at: <https://ecos.fws.gov/ipac/>.

Animals		
<u>Mammals</u>		<u>Status</u>
Gray bat	<i>Myotis grisescens</i>	E
^ Indiana bat	<i>Myotis sodalis</i>	E
Northern long-eared bat	<i>Myotis septentrionalis</i>	T
Virginia big-eared bat	<i>Corynorhinus townsendii virginianus</i>	E
 <u>Birds</u>		
Rufa red knot (migrant only)	<i>Calidris canutus rufa</i>	T
Piping plover (migrant only)	<i>Charadrius melodus</i>	T
* Whooping crane (migrant only)	<i>Grus americana</i>	XN
Least tern	<i>Sterna antillarum</i>	E
 <u>Fishes</u>		
^+ Diamond darter (CH only)	<i>Crystallaria cincotta</i>	E
Relict darter	<i>Etheostoma chienense</i>	E
Duskytail darter	<i>Etheostoma percnurum</i>	E
^ Kentucky arrow darter	<i>Etheostoma spilotum</i>	T
^ Cumberland darter	<i>Etheostoma susanae</i>	E
Palezone shiner	<i>Notropis albizonatus</i>	E
Blackside dace	<i>Chrosomus cumberlandensis</i>	T
Pallid sturgeon	<i>Scaphirhynchus albus</i>	E
Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	T(S/A)
 <u>Crustaceans</u>		
Big Sandy crayfish	<i>Cambarus callainus</i>	T
^ Kentucky cave shrimp	<i>Palaemonias ganteri</i>	E
 <u>Mussels¹</u>		
^ Cumberland elktoe	<i>Alasmodonta atropurpurea</i>	E
Spectaclecase	<i>Cumberlandia monodonta</i>	E
Fanshell	<i>Cyprogenia stegaria</i>	E
+ Dromedary pearl mussel	<i>Dromus dromas</i>	E
^ Cumberlandian combshell	<i>Epioblasma brevidens</i>	E
^ Oyster mussel	<i>Epioblasma capsaeformis</i>	E
Tan riffleshell	<i>Epioblasma florentina walkeri</i>	E
Purple catspaw (catpaw)	<i>Epioblasma obliquata obliquata</i>	E
Northern riffleshell	<i>Epioblasma torulosa rangiana</i>	E
Snuffbox	<i>Epioblasma triquetra</i>	E
+ Cracking pearl mussel	<i>Hemistena lata</i>	E
Pink mucket	<i>Lampsilis abrupta</i>	E

Mussels¹ – Continued

+ Scaleshell	<i>Leptodea leptodon</i>	E
Ring pink	<i>Obovaria retusa</i>	E
Littlewing pearlymussel	<i>Pegias fabula</i>	E
+ White wartyback	<i>Plethobasus cicatricosus</i>	E
Orangefoot pimpleback	<i>Plethobasus cooperianus</i>	E
Sheepnose	<i>Plethobasus cyphus</i>	E
Clubshell	<i>Pleurobema clava</i>	E
Rough pigtoe	<i>Pleurobema plenum</i>	E
+ Slabside pearlymussel	<i>Pleuonaia dolabelloides</i>	E
Fat pocketbook	<i>Potamilus capax</i>	E
^Fluted kidneyshell	<i>Ptychobranhus subtentum</i>	E
^Rabbitsfoot	<i>Quadrula c. cylindrica</i>	T
+ Winged mapleleaf	<i>Quadrula fragosa</i>	E
Cumberland bean	<i>Villosa trabilis</i>	E

Insects

Rusty patched bumblebee	<i>Bombus affinis</i>	T
+ American burying beetle	<i>Nicrophorus americanus</i>	E

Plants

Price's potato-bean	<i>Apios priceana</i>	T
^ Braun's rockcress	<i>Arabis perstellata</i>	E
Cumberland sandwort	<i>Arenaria cumberlandensis</i>	E
Cumberland rosemary	<i>Conradina verticillata</i>	T
^ Kentucky glade cress	<i>Leavenworthia exigua</i> var. <i>laciniata</i>	T
White fringeless orchid	<i>Platanthera integrilabia</i>	T
^ Short's bladderpod	<i>Physaria globosa</i>	E
+ American chaffseed	<i>Schwalbea americana</i>	E
Virginia spiraea	<i>Spiraea virginiana</i>	T
# White-haired goldenrod	<i>Solidago albopilosa</i>	D
Short's goldenrod	<i>Solidago shortii</i>	E
Running buffalo clover	<i>Trifolium stoloniferum</i>	E

¹ The Kentucky State Nature Preserves Commission (<http://www.naturepreserves.ky.gov/>) includes three additional mussel species on their official list for Kentucky (see below). These species have been removed from our list because we consider them to be likely extirpated from the state. The first two species, tubercled blossom and yellow blossom, have not been observed in Kentucky or elsewhere since the 1950s/60s. White Catpaw is currently known only from the St. Joseph River in Indiana and Ohio.

Tubercled blossom	<i>Epioblasma torulosa torulosa</i>	E
Yellow blossom	<i>Epioblasma florentina florentina</i>	E
White Catpaw	<i>Epioblasma obliquata perobliqua</i>	E

^ Species for which Critical Habitat has been designated in Kentucky

Indiana bat – Bat Cave, Carter County and Coach Cave, Edmonson County (41 FR 41914-41916, September 24, 1976).

Diamond darter – Green River, 95-mile reach in Green, Hart, and Edmonson counties (78 FR 52363-52387, September 22, 2013). This CH unit is considered to unoccupied.

Kentucky arrow darter – 38 units in Breathitt, Clay, Harlan, Jackson, Knott, Lee, Leslie, Owsley, Perry, and Wolfe (upper Kentucky River Basin). All units are considered occupied (81 FR 69312-69363, October 5, 2016).

Cumberland darter – Bunches Creek, Calf Pen Fork, Capuchin Creek, Jellico Creek, Wolf Creek, and Youngs Creek – Whitley County; Barren Fork, Capuchin Creek, Cogur Fork, Elisha Branch, Indian Creek, Jellico Creek, Jenneys Branch, Kilburn Fork, Laurel Creek, Laurel Fork, and Rock Creek – McCreary County (77 FR 63603-63668, October 16, 2012).

Kentucky cave shrimp – Roaring River Passage, Mammoth Cave National Park (48 FR 46337-46342, October 12, 1983).

Cumberland elktote – Big South Fork, Marsh Creek, and Rock Creek - McCreary County; Sinking Creek, Laurel County; Laurel Fork, Whitley County (69 FR 53136-53180, August 31, 2004).

Cumberlandian combshell - Big South Fork, McCreary County; Buck Creek, Pulaski County (69 FR 53136-53180, August 31, 2004).

Oyster mussel - Big South Fork, McCreary County; Buck Creek, Pulaski County (69 FR 53136-53180, August 31, 2004).

Rabbitsfoot – Tennessee River, Ohio River, Green River, and Red River (all proposed – 77 FR 63439-63536).

Fluted kidneyshell - Horse Lick Creek, Middle Fork Rockcastle River, Rockcastle River (unoccupied), Buck Creek, Rock Creek, Little South Fork Cumberland River, and Big South Fork Cumberland River (77 FR 60803-60882).

Braun's rockcress - 14 units in Franklin County and 3 in Owen County (69 FR 31460-31496, June 3, 2004).

Kentucky glade cress – 6 units (18 subunits) in Bullitt and Jefferson counties (79 FR 25689-25707, May 6, 2014).

Short's bladderpod – 6 units in Clark, Fayette, and Woodford counties (79 FR 50990-51039, August 26, 2014).

* Species designated as non-essential experimental population in Kentucky

+ Federally listed species that is possibly extirpated from Kentucky (species has not been observed in Kentucky for over 20 years; however, habitat for the species is present and exhaustive searches to document its status are incomplete). These species were not included (counted) in our total of Threatened and Endangered species listed above. We consider the American burying beetle to be extirpated from Kentucky, but we maintain it on this list to inform the public of its historical occurrence (last observed in the early 1970s). We also consider the diamond darter to be extirpated from Kentucky, but we maintain it on this list because critical habitat (unoccupied) has been designated for it in Kentucky (Green River).

White-haired goldenrod was delisted on October 11, 2016 (81 FR 70043-70059).

Species listing status: D, Delisted; E, Endangered; T, Threatened; XN, Experimental Population; S/A, Similarity of Appearance

SPECIES PROPOSED FOR FEDERAL LISTING IN KENTUCKY
(0 Species as of January 11, 2017)*

***Proposed species** = any species of fish, wildlife, or plant that is proposed in the *Federal Register* (FR) to be listed under section 4 of the Endangered Species Act (ESA). A proposed rule to list the rusty patched bumblebee was published in the Federal Register on September 22, 2016 (81 FR 65324-65334).

CANDIDATES FOR FEDERAL LISTING IN KENTUCKY
(1 Species as of January 11, 2017)

Animals

Insects

Rattlesnake-Master Borer Moth *Papaipema eryngii*

Candidate Species – plant and animal taxa considered for possible addition to the federal list of Endangered and Threatened species. These are taxa for which the Fish and Wildlife Service (Service) has on file sufficient information on biological vulnerability and threat(s) to support issuance of a proposal to list, but issuance of a proposed rule is currently precluded by higher priority listing actions (61 FR 7596-7613). The most recent Candidate Notice of Review was published in the Federal Register on December 24, 2015 (80 FR 80584-80614).

Candidate species have no protection under the ESA, but are listed above for early project planning consideration. Candidate species could be proposed or listed during the project planning period and would then be covered under Section 7 of the ESA. The Service advises an evaluation of potential effects on candidate species that may occur in a particular project area.

PETITIONED SPECIES IN KENTUCKY
(43 Species as of January 11, 2017)

Animals

Mammals

Tricolored bat *Perimyotis subflavus*

Birds

Golden-winged warbler *Vermivora chrysoptera*

Reptiles

* Kirtland's Snake *Clonophis kirtlandii*
Alligator snapping turtle *Macrochelys temminickii*

Amphibians

Green salamander *Aneides aeneus*
* Streamside salamander *Ambyostoma barbouri*

* Hellbender

Cryptobranchus alleganiensis

Fishes

- Alabama shad
- Alewife
- * Northern cavefish
- * Ashy darter¹
- * Smallscale darter
- * Tippecanoe darter
- * Popeye shiner
- * Longhead darter
- * Blackfin sucker

Alosa alabamae
Alosa pseudoharengus
Amblyopsis spelaea
Etheostoma cinereum
Etheostoma microlepidum
Etheostoma tippecanoe
Notropis ariommus
Percina macrocephala
Thoburnia atripinnis

Mussels/Snails

- * Longsolid
- * Knobby rocksnail
- * Cumberland moccasinshell
- * Round hickorynut
- * Tennessee clubshell
- * Pyramid pigtoe
- * Shortspire hornsnail
- * Domed anyclid
- * Salamander mussel
- * Kentucky creekshell

Fusconaia subrotundra
Lithasia curta
Medionidus conradicus
Obovaria subrotundra
Pleurobema oviforme
Pleurobema rubrum
Pleurocera curta
Rhodacme elatior
Simpsonaias ambigua
Villosa ortmanni

Crustaceans

- * Big South Fork crayfish
- * Spiny Scale crayfish
- * Appalachian cave crayfish

Cambarus bouchardi
Cambarus jezerinaci
Orconectes packardi

Insects

- * Virginia stone
- * Karst snowfly
- * Linda's roadside-skipper
- Yellow-banded bumblebee
- * Cobblestone tiger beetle
- Monarch butterfly
- * Appalachian snaketail
- Regal fritillary

Acroneuria kosztarabi
Allocapnia cunninghami
Amblyscirtes linda
Bombus terricola
Cincindela marginipennis
Danaus plexipus plexipus
Ophiogomphus incurvatus
Speyeria idalia

Plants

- * Rockcastle wood aster
- * Large-flowered Barbara's-buttons
- * Lea's Bog lichen
- * Gorge leafy liverwort
- * Hall's bulrush
- * Water stitchwort

Eurybia saxicastellii
Marshallia grandiflora
Phaeophyscia leana
Plagiochila caduciloba
Schoenoplectus hallii
Stellaria fontinalis

¹Powers et al. (2012) revised the *Etheostoma cinereum* species complex, reorganizing the group and recognizing all Cumberland River drainage populations in KY and TN as a new species, *Etheostoma maydeni* (redlips darter). The ashy darter (*E. cinereum*) is now considered to be restricted to the Duck, Elk, and upper Tennessee River drainages in Tennessee and Virginia.

Petitioned Species – Species for which the Service has received a formal petition from the public to list it as endangered or threatened under the ESA. Once the petition is received, the Service must make a finding within 90 days as to whether or not there is “substantial information” indicating that the petitioned listing *may be* warranted. If the petition is “substantial”, the Service has one year to complete a status review and make a further finding (12-month finding) that the listing either *is* or *is not* warranted. The above list contains 33 species that were included in a 2010 petition from the Center for Biological Diversity (marked by an asterisk, “*”) and 10 additional species that were part of other petitions (unmarked). The Service has made “substantial” (90-day) findings for all of these species.

On September 1, 2016, the Service announced its **National Listing Workplan**, which includes a schedule for addressing ESA listing and critical habitat decisions over the next 7 years. Listed below are those Kentucky species included in the 7-year plan. Species in bold font are those for which the Kentucky Field Office has lead responsibility for conducting the status assessment.

FY17

Kirtland’s snake

Blackfin sucker

FY18

Hellbender

Redlips darter*

Longsolid

Pink pigtoe

Round hickorynut

Yellow banded bumblebee

Tippecanoe darter

FY19

Hall’s bulrush

Monarch butterfly

Rattlesnake-master borer moth

Cobblestone tiger beetle

Longhead darter

George leafy liverwort

FY20

Alligator snapping turtle

Cumberland moccasinshell

Kentucky creekshell

Tennessee clubshell

FY21

Northern cavefish

Virginia stone (stonefly)

FY22

Popeye shiner

Spiny scale crayfish

Regal fritillary (butterfly)

FY23

Golden-winged warbler

Little brown bat*

Salamander mussel

Smallscale darter

Streamside salamander

FY23 (Continued)

Water stitchwort

Frosted elfin butterfly*

*Species not petitioned but discretionary status assessment scheduled under the Service's National Listing Workplan